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DRAFT MEMORANDUM

DD/ST#

688-68

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14 FEB 1968

MEMORANDUM FOR: Deputy Director for Science and Technology

SUBJECT: Micropower Technology Symposium/Seminar

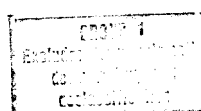
1. The Office of Research and Development plans to hold a classified micropower technology presentation on 15 April 1968 at the main Headquarters auditorium. This presentation will be conducted by DD/S&T/ORD, and coordinated with various offices of the Agency who are concerned with applications of micropower technology to Agency requirements.

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2. The Office of Research and Development, in participation with ARPA and with ARPA funding, has developed through [ ] a series of micropower transistors (MPT). These new MPT devices represent an advancement in the state-of-the-art of transistor technology. The improvement in the efficiency of performance of the MPT over the best commercial transistor is well over an order of magnitude. The value to the Agency of such devices is extremely high; for example, the utilization of these MPT devices will provide a means for increasing the battery life in an audio system by a factor of [ ]

3. These devices have been developed as a result of programs which have been carried out during the past two and one-half years. It is in the best interest of CIA to take advantage of the technological lead time obtained as a result of these efforts and translate this potential into operational use. It is planned to keep this advanced device restricted in use for CIA only for a period of approximately one year so as to provide the maximum opportunity for operational exploitation. As a result of the ARPA funding after a one-year period, it is planned to hold a second similar seminar under ARPA sponsorship on a classified basis for other Government components within DOD (DIA). It is estimated by the third year that the MPT devices will become unclassified and will be distributed commercially by the companies producing them. Throughout the first few

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years of Government actual usage, it is planned that the devices will be available on a classified basis. In the interim, continued work will be carried out to further improve the performance of these devices and thus produce a second generation series of MPT's.

4. It is planned that approximately 50-80 companies will be invited to be represented at the seminar [redacted] will each be given a half day presentation period. Total attendance could include 100 Agency personnel and up to 200 circuit design engineers from the selected contractors. Contractor personnel who will be invited would be cleared personnel who are currently under contract to some Agency group. The contractor personnel who will be invited are those who would benefit the most from such a seminar and would be selected by the office involved (i.e., TSD, O/C, O/S, and DD/S&T). The MPT is a very sensitive device and if improperly understood and used, can readily be destroyed. The companies who will attend will only be Agency contractors who will then be able to use this advanced device on a classified basis for support of Agency contracts on an Agency-only basis.

5. The appropriate components of the Agency will all be involved, i.e., TSD, O/C, O/S, and DD/S&T. Preliminary discussions have been effected with Mr. Jack Blake, O/L, and [redacted] OGC. The Office of Security will manage the affair through the DD/S&T Security Management Staff.

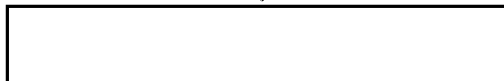
6. The Agency will purchase all of the MPT's during the first year to provide for a means of obtaining the best price advantage based on large lot size and the means of handling the security aspects, and maintaining minimum dissemination of the availability of such devices among the [redacted] local sales representatives. A quantity of 10,000 devices (of four different types) are being purchased as a sample lot and will be given to the individual offices of CIA for transmittal as CFE to those companies under contract to that office for familiarization and advanced circuit testing to permit early exploitation.

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7. Security procedures will be developed by DD/S&T Security Office to handle the admittance of various contractors with the minimum of dissemination of identity, etc. It is also suggested that the arrangements be made to reserve and seal off the open end of the cafeteria for lunch for this group of people.



**Robert M. Chapman**  
**Director of Research and Development**

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AP/ORD/DD/S&T/ (13 Feb. 1968)